

## Mayflower Pipeline Incident Mayflower, AR Summary of Air Monitoring Results Recorded Near Dawson's Cove<sup>1</sup>

This data report discusses air monitoring data recorded on Apr 09, 2013 to Apr 14, 2013 in support of mitigation and remediation operations conducted pipeline release near Mayflower, AR.

Real-time air monitoring for Volatile Organic Compounds (VOCs), H<sub>2</sub>S, SO<sub>2</sub>, Hexane, Xylene, Toluene, and Benzene were conducted using hand-held instruments such as the RAESystems® MultiRAE, UltraRAE, and Gastec® colorimetric detector tubes. Table 1 contains a summary of handheld data representing readings collected near Dawson's Cove to the East of I-40

**Table 1:**  
**04/09/2013 00:00 to 04/14/2013 15:30**

<b>Work Area</b>				
<b>Analyte</b>	<b>Number of Readings</b>	<b>Number of Detections</b>	<b>Average of Detections</b>	<b>Maximum Concentration</b>
<b>Benzene</b>	53	0	N/A	< 0.05 ppm
<b>H<sub>2</sub>S</b>	60	0	N/A	< 1 ppm
<b>Hexane</b>	1	0	N/A	< 1 ppm
<b>Toluene</b>	1	0	N/A	< 1 ppm
<b>VOC</b>	82	3	0.267 ppm	0.4 ppm
<b>Xylene</b>	1	0	N/A	< 1 ppm

<b>Community</b>				
<b>Analyte</b>	<b>Number of Readings</b>	<b>Number of Detections</b>	<b>Average of Detections</b>	<b>Maximum Concentration</b>
<b>Benzene</b>	117	0	N/A	< 0.05 ppm
<b>H<sub>2</sub>S</b>	194	0	N/A	< 1 ppm
<b>SO<sub>2</sub></b>	1	0	N/A	< 0.1 ppm
<b>VOC</b>	232	0	N/A	< 0.1 ppm

<sup>1</sup> Note: The information provided below has not been processed by the QA/QC department.

**Figure 1:**  
**VOC Reading Recorded 4/9/2013 9:30 AM**

**Field Data**

<b>Project number</b>	40435
<b>Reading date</b>	2013/04/09 09:30
<b>Latitude</b>	34.96657
<b>Longitude</b>	-92.417607
<b>Distance From Site</b>	0.31
<b>Location description</b>	N bayou zone F
<b>Indoor/Outdoor</b>	Outdoor
<b>Instrument</b>	MultiRAE
<b>Instrument barcode</b>	12380
<b>Matrix</b>	Air
<b>Analyte</b>	VOC
<b>Concentration</b>	0.1
<b>Units</b>	ppm
<b>Comments</b>	Exhaust fumes odor; Exhaust fumes present; Crude oil odor; Visible Oil; boom present; Workers present; Slight Odor;
<b>Initials</b>	Anthony Williams
<b>Instrument details</b>	
<b>Additional comments</b>	workers spraying water to push oil from one side to the other. water pumps are operating.
<b>Detection limit</b>	0.1
<b>Detection flag</b>	
<b>Gps method</b>	Automatic
<b>Guid</b>	82DA608C-44EC-4B48-A793-47CE71E4F136
<b>Created</b>	2013/04/09 09:30

**Figure 2:**  
**VOC Reading Recorded 4/10/2013 10:43 AM**

**Field Data**

<b>Project number</b>	40435
<b>Reading date</b>	2013/04/10 10:43
<b>Latitude</b>	34.96466
<b>Longitude</b>	-92.41985
<b>Distance From Site</b>	0.16
<b>Location description</b>	I-40 Culvert (zone D) about 40 yds east of culvert on creek
<b>Indoor/Outdoor</b>	Outdoor
<b>Instrument</b>	MultirAE
<b>Instrument barcode</b>	12551
<b>Matrix</b>	Air
<b>Analyte</b>	VOC
<b>Concentration</b>	0.3
<b>Units</b>	ppm
<b>Comments</b>	Crude oil odor; Visible Oil; boom present; Workers present; Down wind; Moderate Odor;
<b>Initials</b>	Tommy Arnold
<b>Instrument details</b>	
<b>Additional comments</b>	NO H2S OR LEL DETECTED. mat'l handler is using a gas blwr to push product on surf of water to collection point; mat'l handler washing product from scalped ground & various holes in grounds. Personnel wearing PFDs. No respirators
<b>Detection limit</b>	0.1
<b>Detection flag</b>	
<b>Gps method</b>	Automatic
<b>Guid</b>	CCC95F3D-2CFB-4E88-AC86-9C8CD9F88590
<b>Created</b>	2013/04/10 10:43

**Figure 3:**  
**VOC Reading Recorded 4/10/2013 2:42 PM**

**Field Data**

<b>Project number</b>	40435
<b>Reading date</b>	2013/04/10 14:42
<b>Latitude</b>	34.965229
<b>Longitude</b>	-92.418556
<b>Distance From Site</b>	0.24
<b>Location description</b>	South Bayou. standing on an island 30 yds northeast from zone's staging area. island surrounded with product floating on the water
<b>Indoor/Outdoor</b>	Outdoor
<b>Instrument</b>	MultiRAE
<b>Instrument barcode</b>	12551
<b>Matrix</b>	Air
<b>Analyte</b>	VOC
<b>Concentration</b>	0.4
<b>Units</b>	ppm
<b>Comments</b>	Crude oil odor; Visible Oil; Workers present; Moderate Odor;
<b>Initials</b>	Tommy Arnold
<b>Instrument details</b>	
<b>Additional comments</b>	NO H2S OR LEL DETECTED. material handlers washing roots, base of trees, and pushing product on water's surface to collection points. Personnel Wearing PFDs. No respirators.
<b>Detection limit</b>	0.1
<b>Detection flag</b>	
<b>Gps method</b>	Automatic
<b>Guid</b>	513CE4CC-6715-46D6-913F-76B9C0018B8B
<b>Created</b>	2013/04/10 14:42





